

BY HA DATE 5/65 **ITI ELECTRONICS, INC., CLIFTON, N. J.** SHEET 1 OF 1
 SUBJECT: Specification - Type IT-284A Video Amplifier NO. S2007-A
Type IT-285A Power Supply ISS. 1

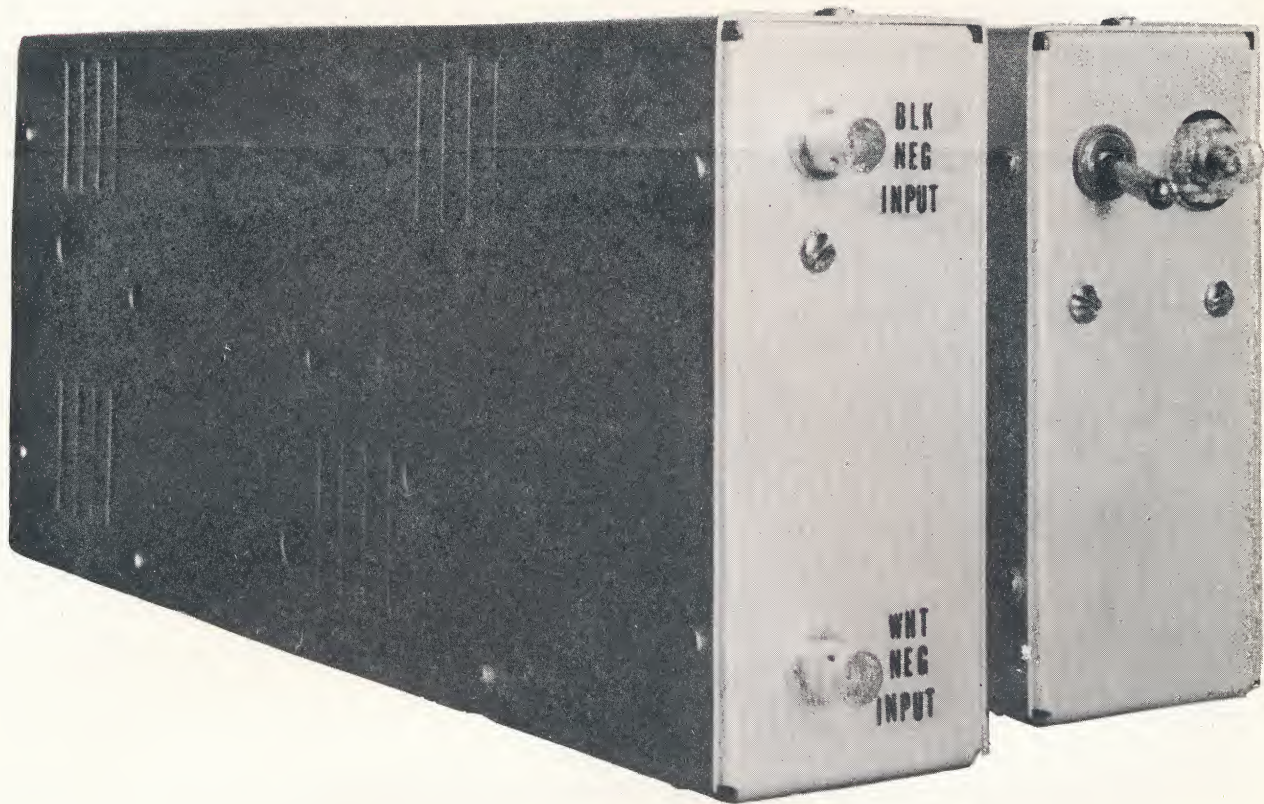
The Type IT-284A is a solid state 14 mc. high level video amplifier for cathode-ray tube grid or cathode drive. It is intended for use as a component of display systems, and is normally supplied with enclosure and power supply. Also, mechanical and electrical variations are available on special order.

- 1- Maximum input - 3V, peak-to-peak.
- 2- Maximum output - 75V, peak-to-peak.
- 3- Voltage gain, unbalanced input - 200.
- 4- Voltage gain, balanced input - 300.
- 5- Bandwidth - -3 db max. at 14 mc. (Note 1)
- 6- Noise - 60 db min. below rated output.
- 7- Common mode rejection, balanced input - Greater than 40 db.
- 8- Low frequency response - 3% tilt max. on 60 cps square wave.
- 9- Gain Control - Greater than 60 db.
- 10- Input Impedance - 10K ohms at low frequencies, approx. 5K ohms at 20 mc.
- 11- Output Impedance - Approx. 1000 ohms.
- 12- Operating temperature limits - -40°C to +40°C.
- 13- Power consumption - approx. 20 watts.
- 14- Voltage Requirements - -45V $\pm$ 1V at 60 ma., +122V $\pm$ 2V at 130 ma.
- 15- Overall Card Size - 10 x 4 x 1-1/4 inches.
- 16- Size with enclosure, BNC input and output connectors - 12 x 5 x 2-1/4 inches.

The Type IT-285A Power Supply is designed to provide the proper inputs to the Type IT-284A Amplifier.

Input	-----	115 $\pm$ 10% VAC, 60 cps 1 ϕ .
Output	-----	-45V $\pm$ 1V at 60 ma., +122V $\pm$ 2V at 130ma.
Size with enclosure	-----	12 x 5 x 2-1/4 inches.

NOTE 1 - Response specifications are for 75 ohm source impedance, and 11 uuf load.



IT 284A VIDEO AMPLIFIER WITH IT285A POWER SUPPLY

BY HA DATE 4/65

ITI ELECTRONICS, INC., CLIFTON, N. J.

SHEET 1 OF 1

SUBJECT: Specification - Type IT-284 Video Amplifier

NO. S2007

Type IT-285 Power Supply

ISS. 3

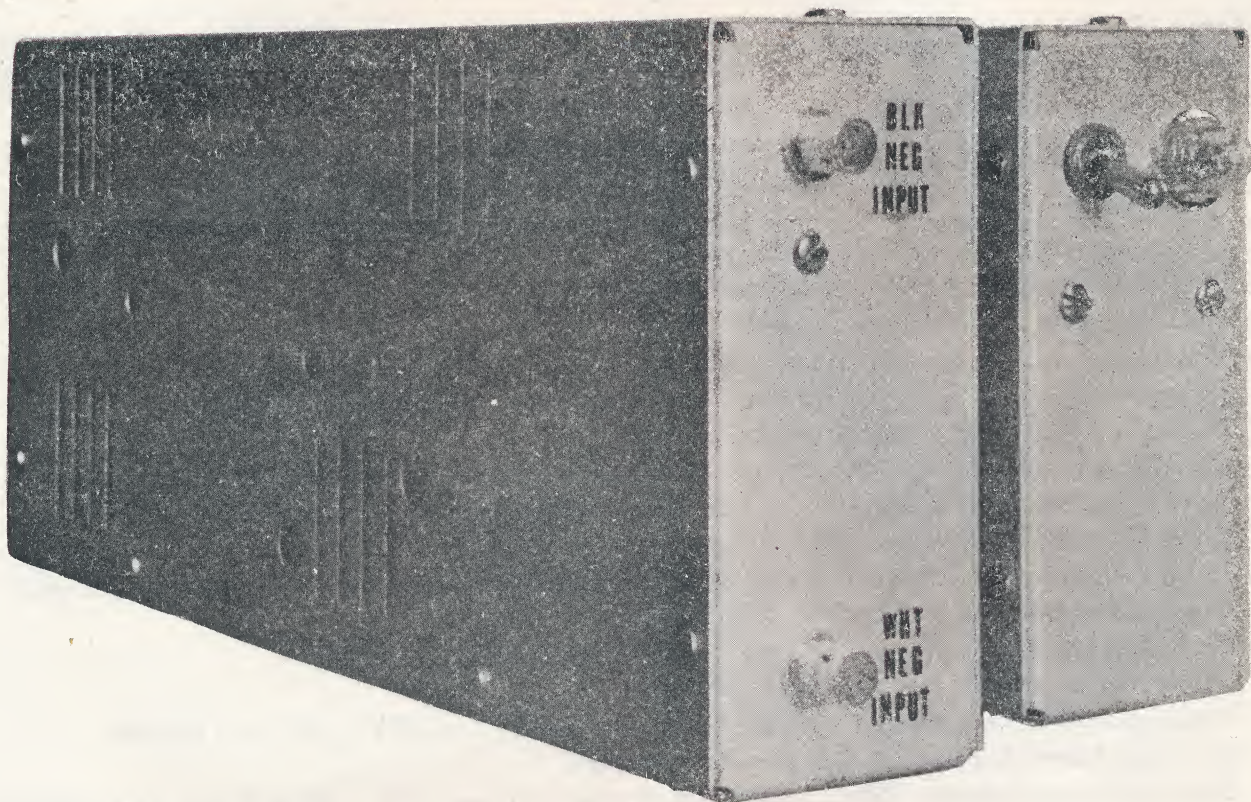
The Type IT-284 is a solid state 20 mc. high level video amplifier for cathode-ray tube grid or cathode drive. It is intended for use as a component of display systems, and is normally supplied with enclosure and power supply. Also, mechanical and electrical variations are available on special order.

- 1- Maximum input - 3V, peak-to-peak.
- 2- Minimum output - 50V, peak-to-peak
- 3- Voltage gain, unbalanced input - 200.
- 4- Voltage gain, balanced input - 300.
- 5- Bandwidth - ± 1.0 db to 15 mc. - -3 db max. at 20 mc. (Note 1)
- 6- Noise - 60 db min. below rated output.
- 7- Common mode rejection, balanced input - Greater than 40 db.
- 8- Low frequency response - 3% tilt max. on 60 cps square wave.
- 9- Gain Control - Greater than 60 db.
- 10- Input Impedance - 10K ohms at low frequencies, approx. 5K ohms at 20 mc.
- 11- Output Impedance - Approx. 900 ohms.
- 12- Operating temperature limits - -40°C to $+60^{\circ}\text{C}$.
- 13- Power consumption - approx. 15 watts.
- 14- Voltage Requirements - $-45\text{V} \pm 1\text{V}$ at 60 ma., $+110\text{V} \pm 2\text{V}$ at 110 ma.
- 15- Overall Card Size - 10 x 4 x 1-1/4 inches.
- 16- Size with enclosure, BNC input and output connectors - 12 x 5 x 2-1/4 inches.

The Type IT-285 Power Supply is designed to provide the proper inputs to the Type IT-284 Amplifier.

Input	-----	$115 \pm 10\%$ VAC, 60 cps 1 ϕ .
Output	-----	$-45\text{V} \pm 1\text{V}$ at 60 ma., $+110\text{V} \pm 2\text{V}$ at 110 ma.
Size with enclosure	-----	12 x 5 x 2-1/4 inches.

NOTE 1 - Response specifications are for 75 ohm source impedance, and 11 uuf load.



IT-284 VIDEO AMPLIFIER WITH IT-285 POWER SUPPLY

ITI Electronics, Inc.

ESTABLISHED 1947

369 LEXINGTON AVENUE, CLIFTON, N.J. 07015

201-473-0900

November 16, 1965

Mr. T. H. Nelson, Sys. Cons.
Box 1546
Poughkeepsie, N. Y. 12603

Dear Mr. Nelson:

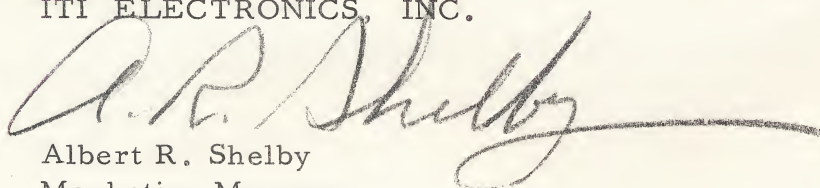
Thank you for your recent inquiry on our Type IT-284 Video Amplifier. Enclosed is our Spec. No. S-2007 which you requested. You will note that this specification also covers our Type IT-285 Power Supply. It is designed to deliver the proper inputs to the Video Amplifier.

For the record, the price of the Type IT-284 is \$400.00 net each, and the Type IT-285 is \$200.00 net each. Both prices include an enclosure. Our f.o.b. point is Clifton, New Jersey and our terms are 1% ten days, net 30 days.

As noted in the specification, we will be happy to submit proposals covering modifications of the basic amplifier to meet your particular requirements. Your interest in our products is appreciated and we hope that we may be of service to you in the video amplifier field.

Very truly yours,

ITI ELECTRONICS, INC.



Albert R. Shelby
Marketing Manager

ARS/mdb
encl.

Re: IT-284-284A - Info. Display